Listing of Claims

- 1-12 (Canceled)
- 13. (Currently Amended) A data transmission system, comprising:

a personal computer; and

a <u>multi-access system</u>, <u>including a</u> modem, coupled to the computer through a Bluetooth connection;

wherein data packets are transmitted between the <u>personal</u> computer and the <u>multi-accessing system including the</u> modem through the Bluetooth connection, and the <u>multi-accessing system including the</u> modem transmits the data packets via an air interface for accessing the Internet.

14. (Currently Amended) The system of claim 13, <u>further comprising</u> wherein the modem comprises:

a radio transmitting system, coupled to the modem of the which includes a multiaccess system, that allows a plurality of <u>personal</u> computers to access at least one radio communication terminal.

15. (Canceled)

Serial No. 10/614,330 Amendment dated April 7, 2008 Reply to Office Action of January 7, 2008

16. (Currently Amended) The system of claim 13, wherein the modern comprises further comprising:

at least one radio communication terminal <u>coupled to the modem</u>; and <u>wherein the</u> [[a]] multi-access system <u>is</u> between the radio communication terminal and <u>the personal</u> computer.

- 17. (Previously Presented) The system of claim 16, wherein the multi-access system sends data packets belonging to a same call from the computer for wireless transmission through a plurality of radio communication terminals.
- 18. (Previously Presented) The system of claim 17, wherein the multi-access system sends the data packets through the plurality of radio communication terminals based on a same destination IP address and a same data link address, said same data link address corresponding to the computer.
- 19. (Currently Amended) The system of claim 16, wherein the multi-access system comprises:
 - a system for receiving data packets from a plurality of personal computers;
- a packet-call connection system for interfacing with one or more radio communication terminals; and

Serial No. 10/614,330 Amendment dated April 7, 2008 Reply to Office Action of January 7, 2008

a multi-access routing system for routing data packets from the multimedia system to the radio communication terminals according to a slot assignment method.

- 20. (Previously Presented) The system of claim 19, wherein the slot assignment method is set by the plurality of computers.
- 21. (Currently Amended) The system of claim 19, wherein the slot assignment method comprises:

performing a one-on-one assignment for mapping each of the <u>personal</u> computers to a respective one of the radio communication terminals; and

- a common sharing method for allowing each <u>personal</u> computer to share the plurality of radio communication terminals for transmitting data packets.
- 22. (Currently Amended) The system of claim 19, wherein the receiving system comprises:
- a plurality of physical data link control circuits provided in one-to-one correspondence with the plurality of <u>personal</u> computers, each of said physical data link control circuits controlling a corresponding physical data link;
- a TCP/IP control circuit to perform a TCP/IP protocol function on data packets transmitted from the plurality of physical data link control circuits;

Serial No. 10/614,330 Amendment dated April 7, 2008 Reply to Office Action of January 7, 2008

a command/response control circuit for performing/responding to a command of the computers transmitted from the TCP/IP control circuit; and

a data control circuit for sorting and buffering data transmitted from the TCP/IP control circuit.

23. (Currently Amended) The system of claim 19, wherein the multi-access routing system:

sets a slot assignment method according to a command of at least one of the personal computers,

assigns a slot to said one of the <u>personal</u> computers according to the set slot assignment method, and

routes data packets associated with a same call between said one of the <u>personal</u> computers and multiple ones the radio communication terminals based on said same destination IP address and said same data link address associated with each of the packets.